

## User Manual



# EUROLIVE B1220DSP

Digital Processor-Controlled 600-Watt  
12" PA Speaker System with Integrated Mixer

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## Thank you

Thank you very much for expressing your confidence in BEHRINGER products by purchasing the EUROLIVE B1220DSP. The B1220DSP is a state-of-the-art digitally controlled PA speaker system that will simply blow you away. Its bi-amped 600-Watt engine drives a high-efficiency 12" woofer for brutal punch and a 1.75" titanium driver for high-end resolution. The built-in mixer allows you to run the show without any extra equipment. A powerful 24-bit DSP controls the crossover, a dual compressor/limiter, phase and time corrections and even a noise gate. The intelligent dynamic EQ makes sure your system sounds perfect at any sound level.

## EN Important Safety Instructions



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.



### Caution

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.



### Caution

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.



### Caution

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid

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## LIMITED WARRANTY

### § 1 Warranty

① This limited warranty is valid only if you purchased the product from a MUSIC Group Authorized Reseller in the country of purchase. A list of authorized resellers can be found on BEHRINGER's website [behringer.com](http://behringer.com) under "Where to Buy", or you can contact the MUSIC Group office closest to you.

② MUSIC Group\* warrants the mechanical and electronic components of this product to be free of defects in material and workmanship if used under normal operating conditions for a period of one (1) year from the original date of purchase (see the Limited Warranty terms in § 4 below), unless a longer minimum warranty period is mandated by applicable local laws. If the product shows any defects within the specified warranty period and that defect is not excluded under § 4, MUSIC Group shall, at its discretion, either replace or repair the product using suitable new or reconditioned product or parts. In case MUSIC Group decides to replace the entire product, this limited warranty shall apply to the replacement product for the remaining initial warranty period, i.e., one (1) year (or otherwise applicable minimum warranty period) from the date of purchase of the original product.

③ Upon validation of the warranty claim, the repaired or replacement product will be returned to the user freight prepaid by MUSIC Group.

④ Warranty claims other than those indicated above are expressly excluded.

PLEASE RETAIN YOUR SALES RECEIPT. IT IS YOUR PROOF OF PURCHASE COVERING YOUR LIMITED WARRANTY. THIS LIMITED WARRANTY IS VOID WITHOUT SUCH PROOF OF PURCHASE.

### § 2 Online registration

Please do remember to register your new BEHRINGER equipment right after your purchase at [behringer.com](http://behringer.com) under "Support" and kindly read the terms and conditions of our limited warranty carefully. Registering your purchase and equipment with us helps us process your repair claims quicker and more efficiently. Thank you for your cooperation!

### § 3 Return materials authorization

① To obtain warranty service, please contact the retailer from whom the equipment was purchased. Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under

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“Support” at behringer.com. If your country is not listed, please check if your problem can be dealt with by our “Online Support” which may also be found under “Support” at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product. All inquiries must be accompanied by a description of the problem and the serial number of the product. After verifying the product’s warranty eligibility with the original sales receipt, MUSIC Group will then issue a Return Materials Authorization (“RMA”) number.

② Subsequently, the product must be returned in its original shipping carton, together with the return authorization number to the address indicated by MUSIC Group.

③ Shipments without freight prepaid will not be accepted.

#### § 4 Warranty Exclusions

① This limited warranty does not cover consumable parts including, but not limited to, fuses and batteries. Where applicable, MUSIC Group warrants the valves or meters contained in the product to be free from defects in material and workmanship for a period of ninety (90) days from date of purchase.

② This limited warranty does not cover the product if it has been electronically or mechanically modified in any way. If the product needs to be modified or adapted in order to comply with applicable technical or safety standards on a national or local level, in any country which is not the country for which the product was originally developed and manufactured, this modification/adaptation shall not be considered a defect in materials or workmanship. This limited warranty does not cover any such modification/adaptation, regardless of whether it was carried out properly or not. Under the terms of this limited warranty, MUSIC Group shall not be held responsible for any cost resulting from such a modification/adaptation.

③ This limited warranty covers only the product hardware. It does not cover technical assistance for hardware or software usage and it does not cover any software products whether or not contained in the product. Any such software is provided “AS IS” unless expressly provided for in any enclosed software limited warranty.

④ This limited warranty is invalid if the factory-applied serial number has been altered or removed from the product.

⑤ Free inspections and maintenance/repair work are expressly excluded from this limited warranty, in particular, if caused by improper handling of the product by the user. This also applies to defects caused by normal wear and tear, in particular, of faders, crossfaders, potentiometers, keys/buttons, guitar strings, illuminants and similar parts.

⑥ Damage/defects caused by the following conditions are not covered by this limited warranty:

- improper handling, neglect or failure to operate the unit in compliance with the instructions given in BEHRINGER user or service manuals;

- connection or operation of the unit in any way that does not comply with the technical or safety regulations applicable in the country where the product is used;
- damage/defects caused by acts of God/Nature (accident, fire, flood, etc) or any other condition that is beyond the control of MUSIC Group.

⑦ Any repair or opening of the unit carried out by unauthorized personnel (user included) will void the limited warranty.

⑧ If an inspection of the product by MUSIC Group shows that the defect in question is not covered by the limited warranty, the inspection costs are payable by the customer.

⑨ Products which do not meet the terms of this limited warranty will be repaired exclusively at the buyer’s expense. MUSIC Group or its authorized service center will inform the buyer of any such circumstance. If the buyer fails to submit a written repair order within 6 weeks after notification, MUSIC Group will return the unit C.O.D. with a separate invoice for freight and packing. Such costs will also be invoiced separately when the buyer has sent in a written repair order.

⑩ MUSIC Group Authorized Resellers do not sell new products directly in online auctions. Purchases made through an online auction are on a “buyer beware” basis. Online auction confirmations or sales receipts are not accepted for warranty verification and MUSIC Group will not repair or replace any product purchased through an online auction.

#### § 5 Warranty transferability

This limited warranty is extended exclusively to the original buyer (customer of authorized reseller) and is not transferable to anyone who may subsequently purchase this product. No other person (reseller, etc.) shall be entitled to give any warranty promise on behalf of MUSIC Group.

#### § 6 Claim for damage

Subject only to the operation of mandatory applicable local laws, MUSIC Group shall have no liability to the buyer under this warranty for any consequential or indirect loss or damage of any kind. In no event shall the liability of MUSIC Group under this limited warranty exceed the invoiced value of the product.

#### § 7 Limitation of liability

This limited warranty is the complete and exclusive warranty between you and MUSIC Group. It supersedes all other written or oral communications related to this product. MUSIC Group provides no other warranties for this product.

#### § 8 Other warranty rights and national law

① This limited warranty does not exclude or limit the buyer’s statutory rights as a consumer in any way.

② The limited warranty regulations mentioned herein are applicable unless they constitute an infringement of applicable mandatory local laws.

③ This warranty does not detract from the seller’s obligations in regard to any lack of conformity of the product and any hidden defect.

#### § 9 Amendment

Warranty service conditions are subject to change without notice. For the latest warranty terms and conditions and additional information regarding MUSIC Group’s limited warranty, please see complete details online at behringer.com.

\* MUSIC Group Macao Commercial Offshore Limited of Rue de Pequim No. 202-A, Macau Finance Centre 9/J, Macau, including all MUSIC Group companies

## 1. Introduction

- ◆ Please read this manual to familiarize yourself with the control elements of the unit and its functions. After you have carefully read this manual, keep it for future reference.

### 1.1 Before you get started

#### 1.1.1 Shipment

Your B1220DSP was carefully packed at the assembly plant to assure secure transport. Should the condition of the cardboard box suggest that damage may have taken place, please inspect the unit immediately and look for physical indications of damage.

- ◆ Damaged equipment should NEVER be sent directly to us. Please inform the dealer from whom you acquired the unit immediately as well as the transportation company from which you took delivery. Otherwise, all claims for replacement/repair may be rendered invalid.
- ◆ Please always use the original packaging to avoid damage due to storage or shipping.
- ◆ Never let unsupervised children play with the B1220DSP or with its packaging.
- ◆ Please dispose of all packaging materials in an environmentally friendly fashion.

#### 1.1.2 Initial operation

Be sure that there is enough space around the unit for cooling. To avoid overheating, do not place the B1220DSP on top of power amps or near radiators, etc.

The mains connection is made using the enclosed power cord and a standard IEC receptacle. It meets all international safety certification requirements.

- ◆ Please make sure that all equipment is properly grounded at all times. For your own safety, never remove or disable the ground conductor of the unit or of the AC power cord.

#### Important note concerning installation:

- ◆ The sound quality may diminish within the range of powerful broadcasting stations and high-frequency sources. Increase the distance between the transmitter and the device and use shielded cables for all connections.

#### 1.1.3 Online registration

Please register your new BEHRINGER equipment right after your purchase by visiting <http://behringer.com> and read the terms and conditions of our warranty carefully.

Should your BEHRINGER product malfunction, it is our intention to have it repaired as quickly as possible. To arrange for warranty service, please contact the BEHRINGER retailer from whom the equipment was purchased. Should your BEHRINGER dealer not be located in your vicinity, you may directly contact one of our subsidiaries. Corresponding contact information is included in the original equipment packaging (Global Contact Information/European Contact Information). Should your country not be listed, please contact the distributor nearest you. A list of distributors can be found in the support area of our website (<http://behringer.com>).

Registering your purchase and equipment with us helps us process your repair claims more quickly and efficiently.

Thank you for your cooperation!

## 2. Control Elements and Connections

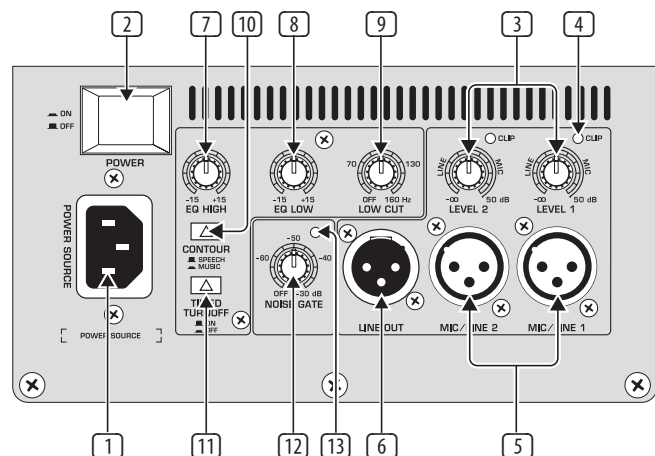


Fig. 2.1: Control elements and connections

- 1 Power is supplied via an IEC connector. The matching cable is provided with the unit.
- 2 Use the POWER switch to turn on the B1220DSP. Before connecting the unit to the power mains, ensure that the POWER switch is in OFF position.
- ◆ Attention: The POWER switch does not fully disconnect the unit from the mains. To disconnect the unit from the mains, pull out the main cable plug or appliance coupler. When installing the product, ensure the plug or appliance coupler is readily operable. Unplug the power cord completely when the unit is not used for long periods of time.
- 3 Use the LEVEL control to adjust the signal gain of the MIC/LINE inputs. Before you connect or disconnect a signal source to or from one of the inputs, please turn the corresponding control fully to the left. Once the signal source is connected, increase the volume as desired by turning the control clockwise. Always make sure that the CLIP LED 4 does not light up at all or with signal peaks only.

#### Line-level signals:

Devices with high output levels (e.g. the outputs of mixing consoles or CD players) only need little gain. In this case, the LEVEL control will mostly be positioned somewhere in the area marked "LINE" (left half of the control range).

#### Microphone signals

Low-level microphone signals need more gain. When microphones are used, the control will be positioned in the MIC area (right half of the control range).

- ◆ We would like to draw your attention to the fact that extremely loud sound levels may damage your hearing as well as your headphones/loudspeakers. Turn the LEVEL control fully to the left before you switch on the unit. Be careful to select a suitable volume at all times.
- 4 The CLIP LED lights up when the input signal level is too high. In this case, turn the LEVEL control 3 to the left until the LED goes out or only lights up at peak levels.
- 5 Use the MIC/LINE inputs (XLR connectors) for connecting audio signals.
- 6 The LINE OUT XLR jack provides the signal with no additional gain applied in order to connect another loudspeaker, for example. The output signal is a mix of both input signals. (See Chapter 4.2 for more information on how to use several loudspeakers)



The B1220DSP is equipped with a 2-band tone control. Each band allows you to apply a maximum boost/cut of 15 dB, in its center position the equalizer is set to neutral.

- 7 Use the EQ HIGH control to cut or boost the treble range by 15 dB. The cut-off frequency is 12 kHz.
- 8 Use the EQ LOW control to cut or boost the bass range by 15 dB. The cut-off frequency is 100 Hz.
- 9 The B1220DSP features a high-pass filter with a slope of 24 dB/oct. to eliminate unwanted low-frequency content, such as pop sounds produced by hand-held microphones, or rumble or wind noise when using high-sensitivity microphones. The LOW CUT control adjusts the cut-off frequency. If you want to use the B1220DSP in combination with a subwoofer, you can use the high-pass filter to lower the bass range reproduced by the subwoofer. This allows you to operate the B1220DSP even without an external frequency crossover. Set the cut-off frequency to the highest frequency that can be reproduced by the subwoofer.
- 10 The CONTOUR switch governs the dynamic contour filter:

### SPEECH

Setting the CONTOUR switch to SPEECH (switch not pressed) will optimize the frequency response for speech applications. This ensures better intelligibility.

### MUSIC

Setting the CONTOUR switch to MUSIC (switch pressed) will optimize the frequency response for music playback.

- 11 The TIMED TURNOFF switch activates the automatic turn-off function:

### ON

When the switch is actuated (ON position), the automatic switch-off is active. The loudspeaker is turned off automatically when it receives no signal for more than 3 minutes. As soon as a signal is received, the loudspeaker is switched back on.

### OFF

If the switch is not actuated (OFF position) then the speaker remains switched on and can only be deactivated via the POWER switch 2.

- 12 A noise-gate allows you to eliminate unwanted noise during signal pauses. This is done by a circuit that mutes the output when the signal level drops below a preset threshold. Use the NOISE GATE control to determine the threshold below which the noise-gate closes.
- 13 The TH LED lights up as soon as the signal level drops below the threshold value adjusted with the NOISE GATE control 12 (the noise-gate closes).

## 3. Setting Up the B1220DSP

The sound of your B1220DSP largely depends on the room acoustics. Please observe the following hints to get the most out of your B1220DSP.

### 3.1 Tweeter

High frequencies are the very part of the audio spectrum that ensure a clear perception of sound and speech intelligibility. Although these frequencies can be located most easily, they are also the first to be blocked acoustically. We therefore recommend that you set up your speakers on speaker stands (not included), so that the tweeter radiates its signals slightly above the heads of the audience. This will ensure both an optimum dispersion of the high-frequency content and a considerably improved speech intelligibility.

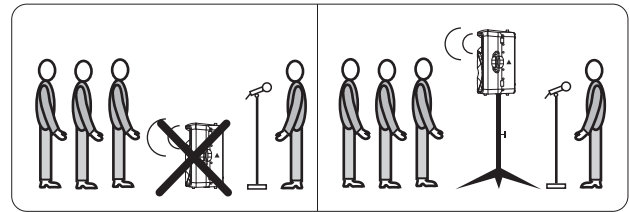


Fig. 3.1: B1220DSP mounted on a stand

### 3.2 How to avoid feedback

Always place the microphones (viewed from the audience) behind the B1220DSP, never in front of it (Fig. 3.2). When you wish to adjust the controls on the B1220DSP while holding a microphone, please approach the loudspeaker from the rear to avoid feedback.

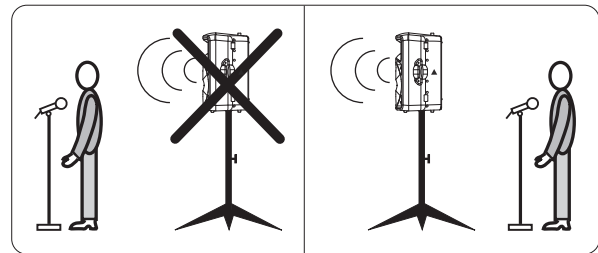


Fig. 3.2: Right and wrong positioning

To avoid feedback, it is recommended that you carefully select and direct the microphones used. Basically, you should use microphones with a high directivity, i.e. with a cardioid or hyper-cardioid polar pattern. Never hold a microphone so that its main pick-up area points directly towards the loudspeaker. When you hold it with its less sensitive side towards the speaker box, you can move closer to the speaker.

- ♦ If you encounter persistent feedback problems, consider using our proven **FEEDBACK DESTROYER PRO FBQ2496** for line-level signals. For signals with line or microphone level, we recommend our **BEHRINGER SHARK DSP110**.

## 4. Application Examples

### 4.1 Presentations

With just one B1220DSP and one or two dynamic microphones, you can set up a basic audio system with very little effort. Thanks to the built-in mixer section, you can connect the microphones directly to the B1220DSP. Mount the B1220DSP on a speaker stand for optimum presentation and intelligibility of announcements. If one B1220DSP is not enough, you can, of course, use a second or even more loudspeakers.

#### Connecting microphones:

- Turn the LEVEL controls 3 fully to the left
- Connect your microphones to the MIC/LINE inputs
- Switch on the B1220DSP
- Turn the LEVEL controls 3 gradually clockwise to set the volume of your choice. Observe the CLIP LEDs while adjusting the volume. Make sure they never shine constantly but only light up at peak levels
- Use the LINE OUT connector 6 to connect an (optional) second B1220DSP

- ❖ **Never place a microphone directly in front of the loudspeaker owing to danger of feedback! When operating the B1220DSP make sure that you always stay behind the loudspeaker to avoid feedback.**

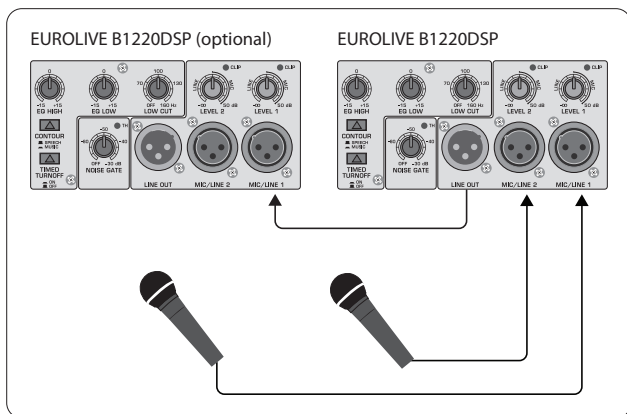


Fig. 4.1: Connecting microphones

## 4.2 PA systems

PA is short for “public address” and includes all applications that involve a larger audience. This example uses a mixing console as its central unit for system operation and connections. All microphones, feeding and effects devices, etc. are connected to the mixing console, which is then linked to the B1220DSP.

### Connecting a mixing console:

- Turn the LEVEL controls [3] fully to the left
- Connect the left output of the mixing console to the MIC/LINE connector of the left loudspeaker, and the right mixing console output to the right loudspeaker
- Switch on the B1220DSP
- Raise the level of the mixing console output to a level of 0 dB
- Turn the LEVEL controls [3] gradually clockwise to set the volume of your choice. When the CLIP LEDs light up, this indicates that the maximum volume has been reached

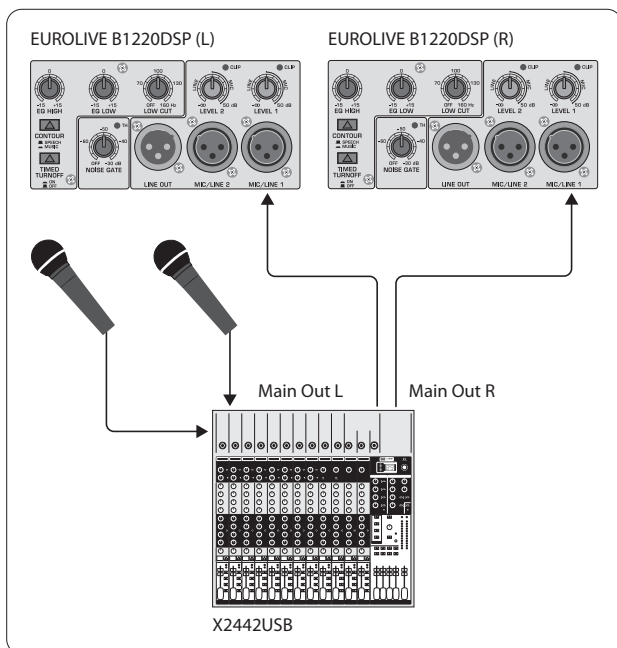


Fig. 4.2: Connecting a mixing console

Instead of a mixing console, you can also connect a stereo signal source, e.g. a CD player. In this case, one B1220DSP is connected to each of the outputs of the signal source.

### Connecting a stereo signal source:

- Turn the LEVEL controls [3] fully to the left
- Connect the left output of the stereo device to the MIC/LINE connector of the left loudspeaker, and the right stereo device output to the MIC/LINE connector of the right loudspeaker
- Switch on the B1220DSP
- Raise the output level of the stereo signal source (if available), ensuring that it does not overload the input
- Turn the LEVEL controls [3] gradually clockwise to set the volume of your choice

### Linking several B1220DSP:

If you need more sound pressure, for example in larger rooms, simply increase the number of loudspeakers on each stereo side. You could place two B1220DSP on each stereo side and interconnect them (see Fig. 4.3). The loudspeakers can be stacked or placed one beside the other. When you stack the speakers, the carrying recesses built into the cabinets ensure the stability of the stack. You can connect a microphone, a mixing console or stereo signal source.

- Connect the LINE OUT connector [6] of the first B1220DSP to the MIC/LINE input of the next B1220DSP
- ❖ **With several B1220DSP speakers connected to each other, their input impedance will be reduced by half (two B1220DSPs), or to one third (three B1220DSPs), etc. Always use the output impedance of the mixing console as a basis for your calculations!**

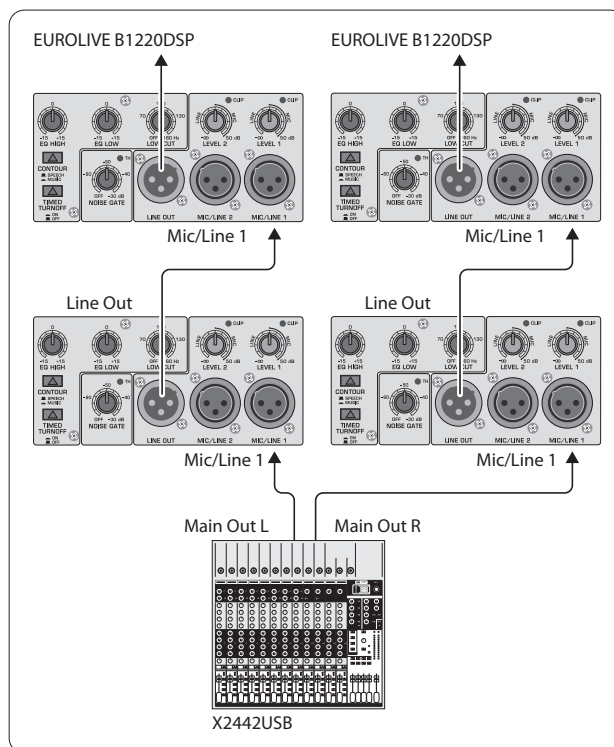


Fig. 4.3: Linking several B1220DSP speakers

## 4.3 Other uses

### Monitoring:

When used as a monitor, the B1220DSP receives its audio signal from the monitor or aux output of the mixing console. If additional B1220DSPs are to be used, you can loop the audio signal from the first speaker to the next B1220DSP using the line output. The sound and volume of each B1220DSP can be adjusted with their own operating elements **3** (LEVEL), **7** (EQ HIGH) and **8** (EQ LOW).

### Keyboard amplification:

Guitarists and bassists usually have their own amplifiers on stage to make sure they can hear their own instrument - even when no monitors are used. In particular on smaller stages, the power delivered by these amps is enough to match the volume produced by other sound sources on stage. Things are different with keyboards and synthesizers as these usually have no built-in speakers. The B1220DSP allows you to connect and mix two keyboards. If you want to play more than two keyboards, you can use a submixer (e.g. MicroMIX MX400) to mix down the signals and route them to the B1220DSP using submixer output connectors. The second MIC/LINE input can be used to connect the monitor signal from the PA mixing console, so that you can also hear the other members of your band.

## 5. Installation

Both audio inputs and outputs of the BEHRINGER B1220DSP are fully balanced. To maximize interference compensation, try to establish balanced connections to other equipment, whenever possible.

- ♦ **Make sure that only competent people install your B1220DSP. They must be sufficiently earthed during and after the installation process. Otherwise, electrostatic discharges may negatively affect the operating characteristics of your equipment.**

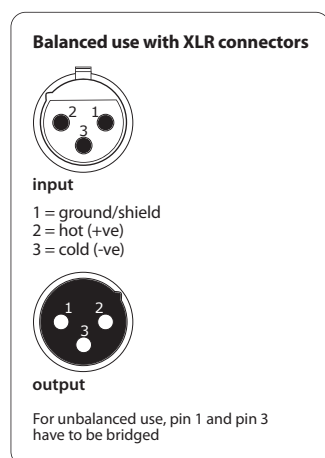


Fig. 5.1: XLR connector

## 6. Specifications

### Audio Inputs

MIC/LINE (2)	XLR (balanced)
Input impedance	27 kOhm
Sensitivity	-40 to +10 dBu

### Audio Outputs

LINE OUT	XLR (balanced)
Output impedance	120 Ohm

### Processing

DSP	24-bit Motorola
AD/DA converter	24-bit / 48 kHz
Limiter	dual protection for woofer and driver
Dynamic EQ	dual parametric EQ's
NOISE GATE	variable (off to -30 dB)
TIMED TURNOFF	switchable (3 min < -45 dBr)
CONTOUR	switchable speech / music contour
EQ HIGH	+/-15 dB (12 kHz)
EQ LOW	+/-15 dB (100 Hz)
LOW CUT	40 - 160 Hz (24 dB/Oct.)

### Loudspeaker System Data

Frequency range	45 Hz to 20 kHz
Crossover	Butterworth, 1.7 kHz, 24 dB/Oct.
Max. sound pressure level	127 dB @ 1 m
Dispersion angle	90° x 45°

### Output Power

#### Low-Frequency Range

RMS @ 1% THD	320 W @ 8 Ohm
Peak Power	460 W @ 8 Ohm

#### High-Frequency Range

RMS @ 1% THD	80 W @ 8 Ohm
Peak Power	140 W @ 8 Ohm



**Power Supply****Mains Voltage/Fuses**

100 V~, 50/60 Hz	T 6,3 A H 250 V
120 V~, 60 Hz	T 6,3 A H 250 V
220 V~, 50 Hz	T 4,0 A H 250 V
230 V~, 50 Hz	T 4,0 A H 250 V
Power consumption	max. 650 W
Mains connector	Standard IEC receptacle

**Dimensions/Weight**

Dimensions (W x H x D)	approx. 15 <sup>3</sup> / <sub>8</sub> x 25 <sup>1</sup> / <sub>8</sub> x 16" approx. 397 x 638 x 406 mm
Weight	approx. 68 lbs. approx. 31.3 kg

BEHRINGER is constantly striving to maintain the highest professional standards. As a result of these efforts, modifications may be made from time to time to existing products without prior notice. Specifications and appearance may differ from those listed or illustrated.

## FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Group Services US Inc.**

Address: **18912 North Creek Parkway,  
Suite 200 Bothell, WA 98011,  
USA**

Phone/Fax No.: **Phone: +1 425 672 0816  
Fax: +1 425 673 7647**

### EUROLIVE B1220DSP

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

### Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.



We Hear You